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### 1 [A cross-layer optimization of gnutella for mobile ad hoc networks](#)



Marco Conti, Enrico Gregori, Giovanni Turi

May 2005 MobiHoc '05: Proceedings of the 6th ACM international symposium on Mobile ad hoc networking and computing

**Publisher:** ACM

Full text available: [pdf\(322.67 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

**Bibliometrics:** Downloads (6 Weeks): 40, Downloads (12 Months): 250, Citation Count: 3

In recent years, the Internet has witnessed the introduction of many peer-to-peer systems designed to realize large-scale data sharing. These platforms exhibit interesting features like self-configuration, self-healing and complete decentralization, ...

Keyw ords: ad hoc networks, cross-layer design, peer-to-peer networking

## 2 Communications of the ACM: Volume 51 Issue 8



August issue Volume 51 Issue 8  
2008

**Publisher:** ACM

Full text available: pdf(6.85 MB) digital  
edition.

Additional Information: [full citation](#)

**Bibliometrics:** Downloads (6 Weeks): 0, Downloads (12 Months): 0, Citation Count: 0

## 3 Communications of the ACM: Volume 51 Issue 3



March issue Volume 51 Issue 3  
2008

**Publisher:** ACM

Full text available: pdf(7.56 MB) digital  
edition.

Additional Information: [full citation](#)

**Bibliometrics:** Downloads (6 Weeks): 98, Downloads (12 Months): 483, Citation Count: 0

## 4 Communications of the ACM: Volume 51 Issue 1



January issue Volume 51 Issue 1  
2008

**Publisher:** ACM

Full text available: pdf(5.97 MB) digital  
edition.

Additional Information: [full citation](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 908, Downloads (12 Months): 2862, Citation Count: 0

## 5 A survey of peer-to-peer content distribution technologies



Stephanos Androutsellis-Theotokis, Diomidis Spinellis  
December ACM Computing Surveys (CSUR), Volume 36 Issue 4  
2004

**Publisher:** ACM

Full text available: pdf(517.77  
KB).


Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),  
[index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 328, Downloads (12 Months): 2294, Citation Count: 23


Distributed computer architectures labeled "peer-to-peer" are designed for the sharing of computer resources (content, storage, CPU cycles) by direct exchange, rather than requiring the intermediation or support of a centralized server or authority. ...

Keywords: Content distribution, DHT, DOLR, grid computing, p2p, peer-to-peer

## 6 Models and issues in data stream systems

 Brian Babcock, Shivnath Babu, Mayur Datar, Rajeev Motwani, Jennifer Widom  
June PODS '02: Proceedings of the twenty-first ACM SIGMOD-SIGACT-SIGART  
2002 symposium on Principles of database systems


**Publisher:** ACM

Full text available:  [pdf\(257.79 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)


**Bibliometrics:** Downloads (6 Weeks): 179, Downloads (12 Months): 723, Citation Count: 178

In this overview paper we motivate the need for and research issues arising from a new model of data processing. In this model, data does not take the form of persistent relations, but rather arrives in multiple, continuous, rapid, time-varying *data ...*

## 7 Dynamic data fusion for future sensor networks

 Umakishore Ramachandran, Rajnish Kumar, Matthew Wolenetz, Brian Cooper, Bikash Agarwalla, Junsuk Shin, Phillip Hutto, Arnab Paul  
August ACM Transactions on Sensor Networks (TOSN), Volume 2 Issue 3  
2006

**Publisher:** ACM


Full text available:  [pdf\(2.44 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 56, Downloads (12 Months): 399, Citation Count: 0


DFuse is an architectural framework for dynamic application-specified data fusion in sensor networks. It bridges an important abstraction gap for developing advanced fusion applications that takes into account the dynamic nature of applications and sensor ...

Keyw ords: Sensor network, data fusion, energy awareness, in-network aggregation, middleware, platform, role assignment

## 8 Representing and querying XML with incomplete information

 Serge Abiteboul, Luc Segoufin, Victor Vianu  
March ACM Transactions on Database Systems (TODS), Volume 31 Issue 1  
2006

**Publisher:** ACM

Full text available:  [pdf\(685.60 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 14, Downloads (12 Months): 132, Citation Count: 1

We study the representation and querying of XML with incomplete information. We consider a simple model for XML data and their DTDs, a very simple query language, and a representation system for incomplete information in the spirit of the representations ...

Keyw ords: Incomplete information, XML


9 Bridging the digital divide: storage media + postal network = generic high-bandwidth communication



Nitin Garg, Sumeet Sobti, Junwen Lai, Fengzhou Zheng, Kai Li, Randolph Y. Wang, Arvind Krishnamurthy

May ACM Transactions on Storage (TOS), Volume 1 Issue 2  
2005

**Publisher:** ACM

Full text available:  [pdf\(748.97 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 21, Downloads (12 Months): 179, Citation Count: 0

Making high-bandwidth Internet access pervasively available to a large worldwide audience is a difficult challenge, especially in many developing regions. As we wait for the uncertain takeoff of technologies that promise to improve the situation, we ...

Keyw ords: Distributed systems, peer-to-peer systems, postal system, storage systems, the digital divide


10 Specification and implementation of exceptions in workflow management systems



Fabio Casati, Stefano Ceri, Stefano Paraboschi, Guiseppe Pozzi

September ACM Transactions on Database Systems (TODS), Volume 24 Issue  
1999 3

**Publisher:** ACM

Full text available:  [pdf\(250.40 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),  
[index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 55, Downloads (12 Months): 278, Citation Count: 19

Although workflow management systems are most applicable when an organization follows standard business processes and routines, any of these processes faces the need for handling exceptions, i.e., asynchronous and anomalous situations that fall outside ...

Keyw ords: active rules, asynchronous events, exceptions, workflow management systems

## 11 Optimistic replication



Yasushi Saito, Marc Shapiro

March ACM Computing Surveys (CSUR), Volume 37 Issue 1  
2005

**Publisher:** ACM

Full text available: [pdf\(656.72 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),  
[index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 113, Downloads (12 Months): 858, Citation Count: 8

Data replication is a key technology in distributed systems that enables higher availability and performance. This article surveys optimistic replication algorithms. They allow replica contents to diverge in the short term to support concurrent work ...

**Keyw ords:** Replication, disconnected operation, distributed systems, large scale systems, optimistic techniques

## 12 An authorization model for temporal and derived data: securing information



portals

Vijayalakshmi Atluri, Avigdor Gal

February ACM Transactions on Information and System Security (TISSEC),  
2002 Volume 5 Issue 1

**Publisher:** ACM

Full text available: [pdf\(406.85 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),  
[index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 20, Downloads (12 Months): 112, Citation Count: 8

The term *information portals* refers to Web sites that serve as main providers of focused information, gathered from distributed data sources. Gathering and disseminating information through information portals introduce new security challenges. ...

**Keyw ords:** Access control, authorization administration, derived data, temporal data

## 13 Proxy-based acceleration of dynamically generated content on the world wide



web: An approach and implementation

Anindya Datta, Kaushik Dutta, Helen Thomas, Debra Vandermeer, Krithi Ramamritham

June ACM Transactions on Database Systems (TODS), Volume 29 Issue 2  
2004

**Publisher:** ACM

Full text available: [pdf\(927.23 KB\)](#)

Additional Information: [full citation](#), [appendices and supplements](#),  
[abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 32, Downloads (12 Months): 197, Citation Count: 1

As Internet traffic continues to grow and websites become increasingly complex, performance and scalability are major issues for websites. Websites are increasingly relying on dynamic content generation applications to provide website visitors with dynamic, ...

Keyw ords: Edge caching, caching dynamically generated content, fragment caching, implementation, proxy caching, world wide web

#### 14 Publicly verifiable ownership protection for relational databases



Yingjiu Li, Robert Huijie Deng

March ASIACCS '06: Proceedings of the 2006 ACM Symposium on Information, computer and communications security

**Publisher:** ACM

Full text available: [pdf\(332.50 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 15, Downloads (12 Months): 151, Citation Count: 0

Today, watermarking techniques have been extended from the multimedia context to relational databases so as to protect the ownership of data even after the data are published or distributed. However, all existing watermarking schemes for relational databases ...

Keyw ords: certificate, ownership protection, public verifiability, relational database, watermark

#### 15 Securing the drop-box architecture for assisted living



Michael J. May, Wook Shin, Carl A. Gunter, Insup Lee

November FMSE '06: Proceedings of the fourth ACM workshop on Formal methods in security

**Publisher:** ACM

Full text available: [pdf\(490.78 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 20, Downloads (12 Months): 96, Citation Count: 1

Home medical devices enable individuals to monitor some of their own health information without the need for visits by nurses or trips to medical facilities. This enables more continuous information to be provided at lower cost and will lead to better ...

Keyw ords: assisted living, formal methods, formal verification, home health monitoring, security protocol verification

## 16 Incentive compatible medium access control in wireless networks



Nassir BenAmmar, John S. Baras

October 2006      GameNets '06: Proceeding from the 2006 workshop on Game theory for communications and networks

**Publisher:** ACM

Full text available: [pdf\(325.99 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 10, Downloads (12 Months): 81, Citation Count: 0

The current IEEE 802.11 medium access control standard is being deployed in coffee shops, in airports and even across major cities. The terminals accessing these wi-fi access points do not belong to the same entity, as in corporate networks, but are ...

Keyw ords: Vickrey auction, medium access control, wireless networks

## 17 Design and implementation of the *idemix* anonymous credential system



Jan Camenisch, Els Van Herreweghen

November 2002      CCS '02: Proceedings of the 9th ACM conference on Computer and communications security

**Publisher:** ACM

Full text available: [pdf\(1.09 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 17, Downloads (12 Months): 97, Citation Count: 16

Anonymous credential systems [8, 9, 12, 24] allow anonymous yet authenticated and accountable transactions between users and service providers. As such, they represent a powerful technique for protecting users' privacy when conducting Internet transactions. ...

Keyw ords: anonymous credential systems, cryptographic protocols, privacy

## 18 BITPEER: continuous subspace skyline computation with distributed bitmap indexes



Katerina Fotiadou, Evaggelia Pitoura

March 2008      DaMaP '08: Proceedings of the 2008 international workshop on Data management in peer-to-peer systems

**Publisher:** ACM

Full text available: [pdf\(406.47 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 6, Citation Count: 0

In this paper, we propose a bitmap approach for efficient subspace skyline computation in a distributed setting. Our approach computes extended skylines which have been shown to include all points necessary for computing the skyline at any subspace. ...

## 19 [Partition-based lazy updates for continuous queries over moving objects](#)



Yu-Ling Hsueh, Roger Zimmermann, Haojun Wang, Wei-Shinn Ku

November 2007 GIS '07: Proceedings of the 15th annual ACM international symposium on Advances in geographic information systems

**Publisher:** ACM

Full text available: [pdf\(629.93 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 20, Downloads (12 Months): 63, Citation Count: 0

Continuous spatial queries posted within an environment of moving objects produce as their results a time-varying set of objects. In the most ambitious case both queries and data objects are dynamic, making it very challenging to find an efficient query ...

**Keyw ords:** mobile computing and location-based services

## 20 [RBAC administration in distributed systems](#)



M.A.C. Dekker, J. Crampton, S. Etalle

June 2008 SACMAT '08: Proceedings of the 13th ACM symposium on Access control models and technologies

**Publisher:** ACM

Full text available: [pdf\(422.87 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 40, Downloads (12 Months): 40, Citation Count: 0

Large and distributed access control systems are increasingly common, for example in health care. In such settings, access control policies may become very complex, thus complicating correct and efficient administration of the access control system. Despite ...

**Keyw ords:** RBAC, access control, administration, distributed system

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